ERICHKIN, A.V., professor, doktor; ZEAKUPQV, G.Ye., kandidat tekhnicheskikh nauk.; GENBACH, A.N., inzhener; CHULAKOV, P.Ch., inzhener; SINDEYEV, P.R., inzhener;

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

Manually operated thermoborer with a single nozzle burner. Mekh.trud. rab. 11 no.1:15-16 Ja '57. (MLRA 10:5)

1.Chlen-korrespondent Adademii nauk KazSSR (for Brichkin)
(Boring machinery)

SINDLY-V, P.R., Cand fech oci — (diss) "Regime of thermie ly "A? and constructive elements of a gas jet." Alma-Ata, 1956, lh pp with sketches (Min of digner Education USSR.

Kazakh Pining Metallurgical Inst. Shair of Wining of Ore Deposits) 150 comies (KL, 50-5d, 125-6)

- 81 -

ERICHKIN, A.V.; SINDEYEV. P.R.; GENEACH, A.N.

Effect of the thermal gas flow on the face of a borehole during thermal piercing. Trudy Alt. GMNII AN Kazakh. SSR no.7:82-101

(Boring) (Thermodynamics)

158.

BRICHKIN, A.V., prof.; SINDEYEV, P.A., inzh.

Distance between burner and borehole face and its influence on the rate of thermal piercing. Izv.vys.ucheb.zav.; gor.zhur. no.11:74-86 58. (MIRA 12:8)

1. Kazanskiy gornometallurgicheskiy institut, chlen-korrespondent AN KazSSR (for Brichkin). 2. Altayskiy institut AN KazSSR (for Sindeyev).

(Boring)

14(5)

SCV/31-59-2-5/17

AUTHOR:

Sindeyev, P.R.

还是在一种,我们就是<mark>是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们就是一个,我们</mark>

TITLE:

Conditions for Thermal Drilling and Constructional Elements of the Torch (Rezhim termicheskogo bureniya

i konstruktivnyye elementy gorelki)

PE IODICAL:

Vestnik Akademii nauk Kazakhskoy SSR, 1959, Nr 2,

pp 50 - 63 (USSR)

ABSTRACT:

This article examines the optimum conditions for successful thermal drilling which does not only depend on the working conditions of the torch (temperature, speed of gas current, pressure in the combustion chamber), but also on the conditions of the drilling process itself. Correct drilling implies keeping the torch at an adequate moving speed for given conditions and types of rocks, maintaining the distance between the torch and the borehole face and the diameter of the borehole, which depends on the above-mentioned distance and drilling speed. The author's thermal drilling experiments carried

Card 1/3

GCV/31-59-2-6/17

Conditions for Thermal Drilling and Constructional Clements of the Torch

out on rocks of the Kounradskiy rudnik (Kounradskiy Mine) have laid great stress on the distance of the torch end from the surface of the borehole face. It has been determined that a change of distance, under otherwise equal conditions, also change the drilling speed and the bore hole diameter. In other words, maintaining an optimum distance between face and torch is indispensable for intensive drilling. first section of the article, the author considers the functional dependence of the distance between torch and face. He concludes that bore hole diameter and distance between face and torch depend on the dynamic indices of the gas current and the design of the burner and nozzles. Experiments confirmed the theoretical considerations. A comparison between experimental and theoretical data showed only slight deviations. To establish the distance between face and torch and the bore hole diameter, therefore, the theoretical premises can be fully utilized. The author further deals with the influence of certain types of shock waves on rock demolition

Card 2/3

SeV/31-59-2-6/17

Conditions for Thermal Drilling and Constructional Elements of the

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Torch

and with the form of the torch gas baffle. He summarizes his statements as follows: 1) Successful thermal drilling is only possible, if a supersonic high-temperature gas current capable of producing shock waves is applied; its angle of incidence at the bore hole face must be 90°, at least 75°.

2) The rotation angle of the peripheral nozzles shall not exceed 10-15°. 3) The burner must be equipped with a gas baffle, which is suitable in form and ensures a maximum life span for the torch.

4) The distance between the end of the torch and the bore hole face is of great practical importance for the intensity of drilling. 5) Maintaining the distance within optimum limits requires the development of a special automatic control device at an industrial thermal drilling plant. There are 10 figures, 6 tables and 11 references, 10 of which are Soviet and 1 English.

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550720018-2"

是这些影響性**的石柱的原列性的研究所以他的名词,这种形式**和高级的原则的原则是不是是一种的原则是不是是一种的原则是一种,这些是是是一种的原则是一种,但是一种的原则

BRICFKIN, A.V.; SINDEYEV, F.R.; GENBACH, A.N.

Form of the gas screen of a jet device for thermal boring. Trudy
Alt. GMNII AN Kazakh. SSR 10:103-115 '61. (MIRA 14:9)

(Boring--Equipment and supplies)

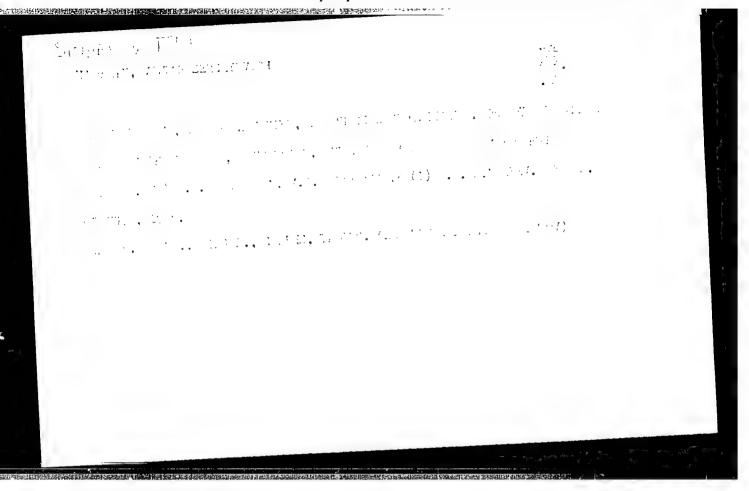
SINDEYEV, P.R.; FEOFANOV, V.A.

Automating jet piercing. Trudy Alt. GMNII AM Kazakh. SSR 15:115-122
(MIRA 17:3)

SINDEYEV, P.R.; SYUNDYUKOV, U.M.

Some characteristics of the designing of torches for manual jet
piercing. Trudy Alt. GMNII AN Kazakh. SSR 15:123-137 '63.

(MIRA 17:3)



LEVSHIN, Vladimir Arturovich; FILONENKO-BORODICH, M.M., doktor tekhn.nauk, prof., retsenzent; VOSTROKNUTOV, S.P., doktor tekhn.nauk, prof., retsenzent; SINDEYEV, V.A., prof., retsenzent; SOKOLOV, V.I., doktor tekhn.nauk, prof., retsenzent; MINAYEVA, T.M., red.; SHAPENKOVA, T.A., tekhn.red.

[Strength of materials] Soprotivlenie materialov. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 475 p. (MIRA 14:6)

(Strength of materials)

GLUSHKOV, Georgiy Sergeyevich, doktor tekhn. nauk, prof.; BEZUKHOV, N.I., zasl. deyatel nauki i tekhniki RSFSR, doktor tekhn. nauk, prof., retsenzent; SINDEYEV. V.A., prof., red.; KOZLOV, A.P., red. izd-va; UVAROVA, A.F., tekhn. red.; DEMKINA, N.F., tekhn. red.

用接种子型出现性制度。

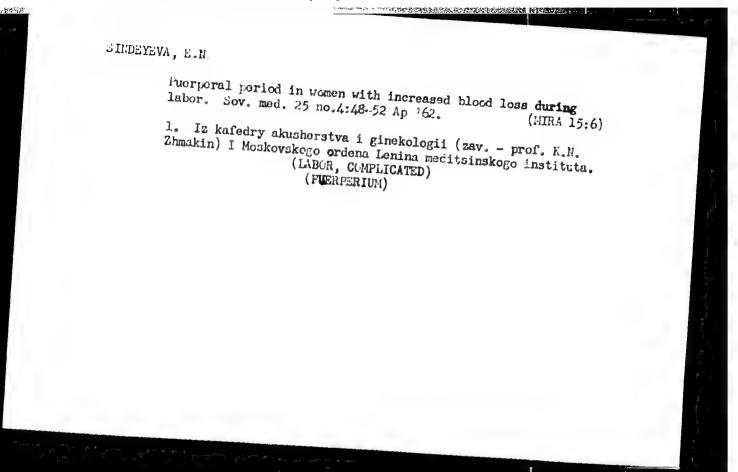
[Engineering methods for strength and rigidity analysis; with the use of moments of high orders]Inzhenernye metody raschetov na prochnost' i zhestkost'; s primeneniem momentov vysokikh poriadkov. Izd.2., perer. i dop. Moskva, Mashgiz, 1962. 354 p. (MTRA 15:9)

(Strength of materials)

GLUSHKOV, G.S.; GINDEYEV, V.A. [decesned]; BEZUKHOV, N.I., do) tor tekhr. nauk; prof.; zmal. deyatel nauki i tekhriki RSFSR; retsenzent; KOFYLENKO, V.P., prof., nauchn. red.; FUFAYEVA, G.I., red.

[Course in the strength of materials] Kurs soprotivlenita raterialov. Moskva, Mysshaia shkola, 1965, 767 p.

(NIKA 18:5)

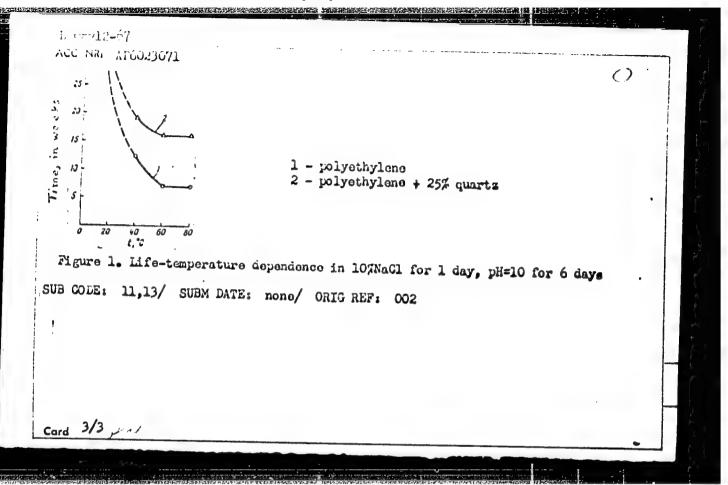


1. 19 -19 Fer (a)/Fer (3)/EP(t)/EF ACC NR. A16023071 TJP(c) J3/23/23 SOURCE COLE: UR/0191/66/G00/004/0063/0064 AUTHOR: Sindeyeva, L. G.; Ostrikov, M. S.; Droyzen, V. M. OnG: none TITLE: Anticorrosion properties of polyethelene coatings with mineral fillers SOURCE: Plasticheskiye massy, no. 4, 1966, 63-64 TOFIC TAGS: polyethylene, planting, conting, corrosion inhibitor, filler, quartz, ABSTRACT: The authors have investigated the effect of marshalite, quartz, feldspar,. diabase, taleum, and mica fillers used to improve the strength characteristics and rigidity of polyethylene coatings in corrosive media under abrative conditions. Coatings of P-4004-T polyethylene with 0.94 g/cm³ density, 0.6 g/10 min. fusion index, 0.03% ash content, and 25 wt. filler, 400-500µ thick, were sprayed on 60 mm long, 15 mm diameter cylindrical steel specimens. The specimens were tested in 10% NaCl, 2% H₂SO₁, and 4% NaOH solutions at 20, 40, 60, and 80C. The life of the coatings was determined by measuring the electrical resistance with the aid of a terachmueter MDM-4 (see Table). The corresive treatment was repeated every week. For 7 hr. the specimens were held at 80C, the rest of the time at room temperature. The life of coatings decreased as the temperature was increased. (Figure 1). An increase in the life of Card 1/3 UDC: 678,742,2-416+678,046,36,019,34

L 08912-67 ACC NR: AP6023071 Table 1. The effect of mineral fillers on the service life of polyethelene coatings Service life of coating, in weeks Filler at 800 no filler 2% H₂SO₄: 1 day pH=3: 6 days marshalite quartz feldspar diabase talcum 8 mica 21 10% NaCl: 1 day 20 4 7 3 pH=10: 6 days 3 7 21 4% NaOH: 1 day 20 8 21 12 pH=3: 3 days 3 6 pH=10: 3 days 9 9 7 8 5. 9

coatings can be attributed to the stress-relieving effect of the fillers. Filler-reinforced coatings, however, undergo spot corrosion due to hydrophobic and hydrophilic
differences in the polyethylene and the filler. Hence, studies are being conducted as
of polyethylene coatings. Orig. art. has: 3 fig. and 1 table.

Card 2/3

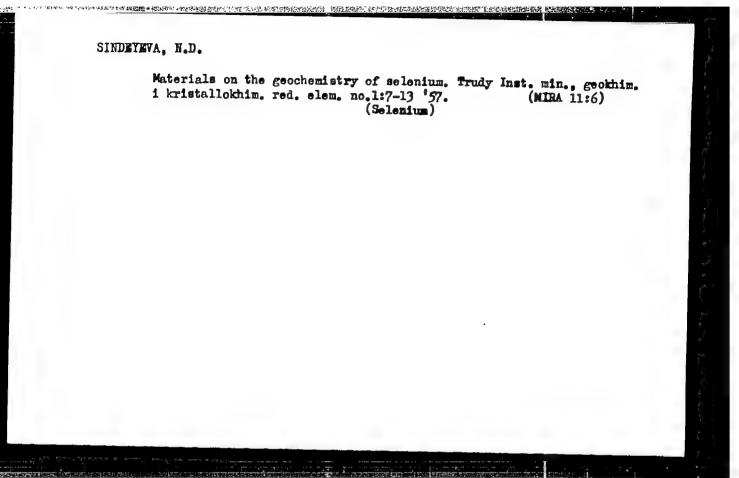


(MIRA 9:2)

SINDBYBVA. N.D. Geochemical indication of the presence of pyrite deposits. Dekl. AN SSSR 104 no.1:114 \$ '55.

注:3条"该学科是自动的社会企业的特殊和各种企业等等等的企业等等的。" 第二章

1.Laberateriya mineralegii i geekhimii redkikh elementev Akademii nauk SSSR.Predstavleno akademikem D.I.Shcherbakevym. (Pyrites)



SINDEYEVA, Nina Dmitriyevna (Institute of Mineralogy, Geo-Chemistry, and Crystal-Chemistry of Rare Elements Acad. Sci. USSR) for Doc of Geological and Mineralogical Sciences on the basis of dissertation defended 10 Dec 58 in Council of the Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geo-Chemistry Acad. Sci. USSR, entitled: "Mineralogy, Types of Deposits, Principal Cuttines of the Geo-Chemistry of Selenium and Tellurium." (BMViSSO USSR, 2-61, 31)

410

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AUTHOR:

Sindeyeva, N.D.

11-58-5-7/16

TITLE:

Selenium and Tellurium in Deposits of Different Genetic Types (Selen i tellur v mestorozhdeniyakh razlichnykh ge-

neticheskikh tipov)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,

Nr 5, pp 78-94 (USSR)

ABSTRACT:

One of the main geochemical peculiarities of selenium and tellurium is their duality, which places these elements on the boundary line of normal and scattered elements. A large part of the atoms of selenium are scattered in the deposits of sulfur, because of the similarity of their chemical properties. Other parts of these atoms form independent minerals, especially atoms of tellurium, because of their dissimilarity to sulphur, Both these elements are extracted mainly from copper and pyritic deposits in quantities sufficient for industrial needs. The author describes and classifies genetic types of deposits containing these elements. Minerals which include selenium and tellurium were formed in all stages of ore-forming processes from the magmatic to the exogenous stages. On pages 80 -81, the author presents a detailed table of the classification

Card 1/3

11-58-5-7/16

Selenium and Tellurium in Deposits of Different Genetic Types

of all known deposits of these elements in the world. She divides them in three main groups: Magmatic deposits; Volcanogenous deposits; Hydrothermal deposits and Exogenous deposits. The largest reserves of selenium are liquation type of magmatic deposits. associated with the The largest reserves of tellurium, together with selenium, are connected with the post-magmatic, mainly pyritic and cupri-molybdic, deposits. Many other post-magmatic deposits also include selenium and tellurium, and therefore can be used for the extraction of these elements. In the sulfide deposits, the chalcopyrites have the highest content of selenium, which is also found in pyrites and molybdenites. In lead and zinc deposits, the tellurium is found mainly in the galenites. The largest part of the deposits containing the two elements is connected with acid or semiacid granitoids, but the largest deposits are usually connected with the basic intrusives. There is 1 table and 11 references, 3 of which are Soviet, 4 American, 3 German and 1 Belgian.

Card 2/3

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11-58-5-7/16

Selenium and Tellurium in Deposits of Different Genetic Types

ASJOCIATION:

Institut mineralogii, geokhimii i kristallografii redkikh elementov AN SSSR, Moscow (Institute of Mineralogy, Geo-Crystallography of Rare Elements,

Moscow)

SUBMITTED: 2 January 1958

AVAILABLE: Library of Congress

Card 3/3 1. Ore-Deposits 2. Tellurium 3. Selenium

AUTHORS: Sindeyeva, N. D., Kurbanova, N. Z. 30

307/20-120-2-36/63

TITLE:

On the Clarks of Selenium in Some Rocks of the USSR (O klarke

selena v nekotorykh gornykh porodakh SSSR)

PERIODICAL:

Doklady Akademii n nuk SSSR, 1958, Vol. 120, Nr 2,

PP - 353 - 355 (USER)

ABSTRACT:

There are no works specially devoted to the distribution of sclenium in the rocks of the earth's crust. The data of different authors for the selenium clark are given in table 1. They may be subdivided into 2 groups: 1) Quantities obtained by the analysis of concrete natural objects; 2) Quantities obtained by the comparison of actual data with data of earlier investigations,

or mere mathematical computations. In 1955-1957 the authors performed a work with the aim to determine the distribution of selenium in different types of rock in the USSR. The average values obtained in this connection (table 2) for the time being do not yet permit any statement that the clark-contents in rocks of different basicity are highly different from each other.

At the same time a certain accumulation of selenium in certain regions, e.g. the region of Magadan, becomes evident. From the analyses of table 2 the conclusions may be drawn that selenium

Card 1/2

On the Clarks of Selenium in Some Rocks of the USSR SOW20-120-2-36/63

is contained in acid, basic and alkaline rocks in larger amounts than was reported in earlier investigations (References 1,13). The authors' analyses yielded 1,5.10-5%, on the average

~1,4.10⁻⁵%. At the end data on the distribution of selenium in the world (References 9,11,12) are given. In the P-ibaltika 3 schist samples showed contents of from 3.10⁻⁵ to 5.10⁻⁴% (table 2). All these data are not yet sufficient for drawing conclusions on the selenium contents in sedimentary rocks of the USSR. There are 3 tables and 13 references, 6 of which are

ASSOCIATION:

PRESENTED:

Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR (Institute for Mineralogy, Geoche-

mistry and Crystal Chemistry of Rare Elements, AS USSR)
March 3, 1958, by D. I. Shcherbakov, Member, Academy of

Sciences, USSR

SUBMITTED: February

February 26, 1958

1. Selentim-Determination 2. Rock-droperties 3. Rock-dnalysis

Card 2/2

SINDEYEVA, Nina Dmitriyevna; BEUS, A.A., doktor geol.-mineral.nauk, otv.red.; SIMKIN, S.M., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Minerelogy, types of deposits, and basic geochemical characteristics of selenium and tellurium] Minerelogiia, tipy mestorozhdenii i osnovnye cherty geokhimii selena i tellura. Moskva, Izd-vo Akad.nauk SSSR, 1959. 254 p. (MIRA 13:2) (Selenium) (Tellurium)

的。这个人,不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是一个人,我们也不是

3(5,8),5(2,4)

AUTHORS: Sindeyeva, N. D., Godovikov, A. A. SOV/20-127-2-55/70

TITLE:

On the Isomorphism Between Sulphur and Tellurium in Galenite

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp431-434

(USSR)

ABSTRACT:

S, Se and Te are in the VIth group of the periodic system of elements and are chemical analogs. In nature they are connected by monotypical hypergenic processes and occur in the same deposits. They are arranged in an isomorphous series in geochemical papers (Refs 1,2,4). The isomorphism of S and Se is undoubted, that cf S and Te, is, however, unclear. The possibility of an isomorphous substitution of the elements is known to be to a considerable extent caused by the size of the ionic-, atomic-, or covalent radii. The sulphides are to a considerable extent covalent compounds. Selenides and tellurides to a still greater extent. The authors wanted to examine

experimentally the boundaries of the isomorphous substitutions between S and Te. For this purpose PbS (galenite) and PbTe (altaite) were chosen as compounds of one and the same structural type (NaCl) which have also the same type of

Card 1/3

On the Isomorphism Between Sulphur and Tellurium in Galenite

SOV/20-127-2-55/70

chemical bond and further analogies. They were produced pyrosynthetically from elements (in stoichiometric quantities). Table 1 shows the lattice parameters and the microhardness in the series of these compounds. The tellurium quantity which penetrated into the galenite lattice was considerably shortened with the reduction of the altaite concentration to 5% (the parameters were much less changed). The parameters were not changed at an altaite content of 2 and 0.25%. This proves the limitedness of the S- and Te-isomorphism. Considerable excess concentrations of Te are necessary for its occurrence. A solid solution is produced here since the microhardness increases with rising content of PbTe in the sample. By a galenite synthesis in the presence of a considerable tellurium excess a mixture was produced consisting on the whole of galenite and tellurium (Fig 4); it had a characteristic structure. The galenite parameter was, however, not changed.

Card 2/3

On the Isomorphism Between Sulphur and Tellurium in Galenite

SOV/20-127-2-55/70

The formation of a small altaite quantity in the mixture which cannot be determined by the phase analysis may be caused by an inconsiderable sulphur loss in the opening of the soldered experimental ampule. It could not be proved that selenium plays the role of a mediator when tellurium penetrates into the galenite lattice. There are 4 figures, 3 tables, and 5 references, 4 of which are Soviet.

ASSOCIATION:

Institut mineralogii, geckhimii i kristallokhimii redkikh elementov (Institute of Mineralogy, Geochemistry, and Crystal Chemistry of the Rare Elements)

PRESENTED:

January 26, 1959, by N. V. Belov, Academician

SUBMITTED:

November 14, 1958

Card 3/3

D'YACHKOVA, I.B.; SINDEYEVA, N.D., otv. red.; SHILLER, V.A., otv. za vypusk.

[Isomorphism of minerals in the system Bi₂S₃- Bi₂Se₃] Ob izomorfizme mineralov v sisteme Bi₂S₃ - Bi₂Se₃. Moskva, 1960. 10 p. (Akademiia nauk SSSR. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Mineralogiia, no.5) (MIRA 15:6) (Isomorphism)

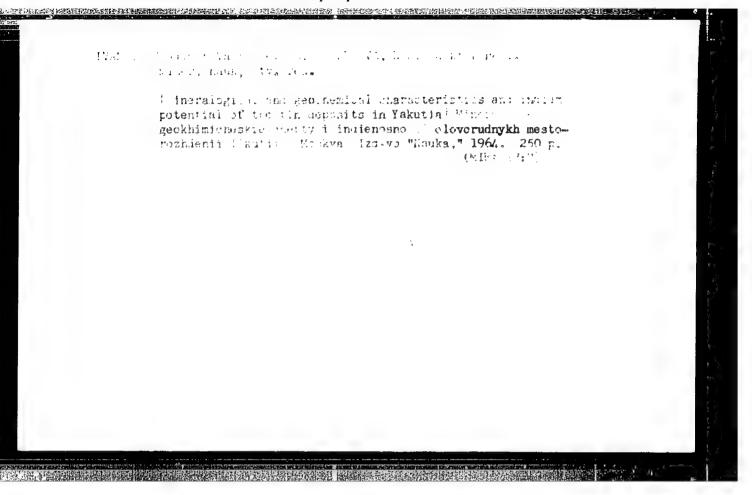
SINDEYEVA, N. D.

"Some features of the geochemistry of selenium and tellurium"

Paper submitted at the International Geological Congress XXI Session - 1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

SINDEYEVA, N.D.; KULIKOVA, M.F.

Rare elements in the oxidation zone of sulfide deposits.
Trudy IMGRE no.10:268-290 '63. (MIRA 17:5)



FUSHKT-Makia OVA, Chema Yewna'yevna; MiddWEVA, M.B., etv. rec.;

[Geochemistry and minerclopy of melenium and tellurium in copper-nickel doposite] Geokhiriia i rimeralogiia selena i taliura v modno-nikelevykh mestarozideniiakh. Noskva, Indvo "Mauka," 1964. 110 p. (MIna 17:6)

YANOV, A.P.; SINDEYEVA, N.F.

Formation of poison gases and dust during blasting operations in underground workings. Sbor.nauch.trud.Kirv.fil.'GD AN URSR no.1:31-38 '62. (MIRA 16:4)

好快好小好**说**的目的研究处理的投资的,我们的思考的知识的必须的必须,你在自己的心理,我们是不是一个人的一个人的一个人的一个人的一个人的,但是不是一个人的人的人们

(Mine dusts) (Mine gases) (Blasting)

SINDIC, Miodrag; JANCIC, Marija S.

Phlegmonous gastritis. Srpski arh. celok. lek. 89 no.4:485-489 Ap '61.

1. Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Zivojin Ignjacev. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(GASTRITIS)

DURIC, Dusan S.; MICIC, Jovan V.; SINDIC, Miodrag; STEPANOVIC, Dragomir

A case of subscute bacterial endocarditis simulating acute bacterial endocarditis. Srpski arh. celok. lek. 89 no.5:623-628 My *61.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic. Institut za patolosku anatomiju Med. fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Zivojin Ignjacev.

(ENDOCARDITIS SUBACUTE BACTERIAL aiag)

BOZINOVIC, Ljubica; SINDIC, Miodrag; MORIC-PETROVIC, Slavka

Tetralogy of Fallot with residual endowasculities and endowardities in a case of mongolism. Srpski ark. celok. lek. 91 no.5:511-516 My 163.

(GANGRENE)

Beogradu Upravnik: prof. dr Radivoje Berovic Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Zivojin Ignjacev Neuropsihijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Uros Jekic.

(MONGOLISM) (TETRALOGI OF FALLOT)

(ENDOCARDITIS) (PULMONARY EMBOLISM)

的。 第一个人,我们是我们的,我们就是我们的,我们们就是我们的,我们就是我们的人,我们就是这个人的人,我们就是我们的人的人,我们就是我们的人,我们就是我们的人,我们就

SINDIC, Miodrag; BABIC, Dusan

Isolated metastases of breast cancer to the thyroid gland. Srpski arh. celok. lek. 89 no.11:1353-1356 N *61.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Branislav Stanojevic Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Zivojin Ignjacev.

(BREAST NEOPLASMS compl) (ADRENAL GLAND neopl)

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SINDIJA, Ivan, ing. (Zagreb)

Theoretical fundamentals and the application of turbo-drills in the U.S.S.R. Nafta Jug 12 no.10:268-279 0 '61.

1. Poslovno udruzenje "Mafta", Zagreb.

SINDIJA, Ivan, inz.

Theoretical foundations and application of turbodrills in the U.S.S.R. Application of turbodrill in the Tuymazy region, Bashkir Autonomous S. S. R. Mafta Jug 12 no.11/12:310-320 N-D '61.

1. Poslovno udruzenje "Nafta," Zagreb.

SEDIV. 2.

'revention and control of diphtheria. Higijena, Beogr. 9 no.1:81-85 1957.

'. Central Institute of dygiene, Zagreb.
(DIPHTHERIA, prev. & control
(Ser))

MUMINAGIC, Abdulah, inz.; SHEDIK, Anton, inc.

Meeting of the Permanent Cornittee of the International Vederation of Geometers, and Symposium on Geodesy in ingineering, Sofia, August 22-29, 1964. Geod list 18 no.10/12:285-295 O-D '64.

SINDIK, I

SINDIK, I.

Yugoslavia (430)

General - Serials

The legislation of Stefan Dusam in Grbalj and Pastrovici. p. 349. Srpska akademija nauka. GLASNIK. Beograd. (Quarterly bulletin containing abstracts of transactions and proceedings of the Serbian Academy of Sciences). Vol. 1, no. 3, 1949.

East European Accessions List, Library of Congress, Vol 1, no 13, November 1952. UNCLASSIFIED

SINDIJA, Ivan, inz.

Boring oil gas wells with electric boring machines in the U.S.S.R. Nafta Jug 13 no.4/5:92-99 Ap-My 62.

l. Poslovno udruzenje "Nafta", Zagreb.

Some observations on the role it climat: factors in estimate patients. Remarkable 12 no.1014-18 165

1. Scinica za slergijase beleati organa za dicanje, ichremi .

AVRUKH, M.L., red.; VASIL'YEV, A.M., red.; SAYEMKO, G.I., red.; SINDILEVICH, L.M., red.

非常特殊的人,但是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是

[Reading machines; papers presented at the conference on the processing of information, machine translation, and automatic reading] Chitaiushchie ustroistva; sbornik dokladov na Konferentsii po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniiu teksta. Moskva, 1962. 186 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Institut nauchmoy informatsii. (Reading machines)

L 33645-65 ENT(d)/EEC(k)-22.5 ACCESSION NR: AP5007475 BB/C	EED-2/EAP(1) Po-4/Pq-4/Pg-4/Pk-4 CO 8/0286/65/	/000/004/0087/0097
	ov, N. I.; Vissonova, I. A.; Kuznets	107, 7. I., 1
TITLE: Semiconstant capacity	nemory davice. Class 42, No. 16855	B.
SOURCE: Byulleten' isobretemi	y i tovarnykh znakov, no. 4, 1965, (o7. 'C
TOPIC TAGS: punched card, sto	rage device	
		CONTRACTOR COLUMN
punched cards. To increase to standard punched cards, the de grooves filled with conducting	cate presents a semiconstant capacitie reliability of the device with the vice consists of a plate with tanks; liquid or solid-liquid alloy (see electrically insulating varnish posteriors and are innersed in the constant of the constant o	in the form of Fig. 1 on the a through holes in
punched cards. To increase the standard punched cards, the degrooves filled with conducting Enclosure). Pins ocated with the punched cards carrying inforig. art. has: 1 diagram. ASSOCIATION: none	vice consists of a plate with tenhs; liquid or solid-liquid alloy (see) electrically insulating varnish postormation and are innersed in the consistency.	in the form of Fig. 1 on the s through holes in aducting liquid.
punched cards. To increase the standard punched cards, the degrooves filled with conducting Enclosure). Pins coated with the punched cards carrying inforig. art. has: 1 diagram. ASSOCIATION: none SUBMITTED: 26Nov63	vice consists of a plate with tenks; liquid or solid-liquid alloy (see) electrically insulating varnish pustormation and are immersed in the (constitution).	in the form of Fig. 1 on the a through holes in
punched cards. To increase the standard punched cards, the degrooves filled with conducting Enclosure). Pins ocated with the punched cards carrying inforig. art. has: 1 diagram. ASSOCIATION: none	vice consists of a plate with tenhs; liquid or solid-liquid alloy (see) electrically insulating varnish postormation and are innersed in the consistency.	in the form of Fig. 1 on the s through holes in aducting liquid.

SINDIIEVICH, L.M.

Second All-Union Conference on Automatic Processing of Information. NTI no.8:8-9 '63. (MIRA 16:10)

1. Uchenyy sekretar' Otdela mekhanizatsii i avtomatizatsii informatsionnykh rabot Vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii Gosudarstvennogo komiteta Soveta Ministrov SSSR pokoordinatsii nauchno-issledovatel'skikh rabot i AN SSSR.

BIRMAN, N.Ya.; SINDILEVICH, L.M.

Determining weight coefficients in the correlation method of written character recognition. NTI no.1:23-24 16%. (MIRA 17:3)

Lower Devonian deposits in the southwestern part of the kalba Range.

Dokl. AN SSSR 141 no.6:1435-1437 D '61. (MIRA 14:12)

。 第1885年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1

1. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye. Predstavleno akademikom D.V.Nalivkinym.

(Kalba Range--Geology, Stratigraphic)

还在分别大风味的的,我们也不是这种的<mark>,我们也是是一个</mark>是一个人,但是是一个人的,他们也是是一个人的人,也可以是一个人的人,他们也是一个人的人,这个人的人,我们也是一个人的

137-58-4-7000

Translation from: Referativnyy zhurnal, Metallurgiya, 1958 Nr 4 p 100 (USSR)

Sindin, V.G. AUTHOR:

Experiences in the Operation of the Section Mills of the Magni-TITLE:

torgorsk Metallurgical Kombinat (Opyt raboty sortovykh stanov

Magnitogorskogo metallurgicheskogo kombinata)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii 1956, Vcl 10

pp 403-409

A steady increase in the production of sections is assured on ABSTRACT:

the existing equipment by more complete utilization of the resources present for increasing output. Thanks to measures taken to re-equip the mills (replacement of motors, reconstruction () the tables), the rolling speed was increased to 9 m/sec. A major role is played by a strictly calculated reduction procedure assuring proper gripping of the metal by the rolls in each pass. Ar increase in the range of cross sections of the billets also provides a considerable reserve for increasing output. Bloomings have to be of great power in order to do this. Introduction of more modern fittings and a unified rolling procedure has reduced down-time at

the mills. Re-equipment of leveling and shearing devices has Card 1/2

137-58-4-7006

Experiences in the Operation of the Section Mills (cont.)

also raised output. In connection with the increase in the output of rolling mills, a number of measures have been taken to speed the heating of billets in holding furnaces—a fuel of higher heat value is used and heat losses have been reduced. Down-time has been diminished by increasing the warehousing of finished products, by perfecting the method of roll replacement, and by introducing a number of measures to improve methods of repair and servicing. Supplement to RzhMet, 1957, Nr 7, 22805.

1. Rolling mills--Operation 2 Rolling mills--Production

V.O.

Card 2/2

SINDINA. L. YU.

28002. SINDINA. L. YU. -- Lecheniye ognestrel nykh osteomielitov po dsi nym frunzenskogo respublikanskogo rospitalya invalidov otechestvennoy voyny. Trudy pervoy nauch. Mezhresp. Konf-tsii po lecheniyu invalidov otechestv. voyny v sred. Azii. Tashkent, 1949, S. 125-28.

到的大学的自己的对话,就是这种的人,但是是不是是一个人,我们也会不是一个人,是是一个人,我们就是这个人,我们就是一个人,我们就会没有一个人,我们就会没有一个人的

SO: Letopis' Zhurnal'nykh Strtey. Vol. 37, 1949.

Sylvala, N.S.

Arrification illication in the sources are Alba-Ata. Z Tav. Kaleum.
21 no.1016s-47. Tele.

1. Is kafeday contacting quinterny (zav.-prof. 1.3. Euryakin)

Kuzakhakego metricsinakego instituta.

SINDINA, N.G.

Hygienic evaluation of the schedule for schoolchildren in Alma-Eta. Zdrav. Kazakh. 23 no.4:67-70 163. (MIRA 17:5)

1. In Mafe by obshahey gigiyeny (zaveduyushotiy - prof. i.S. Koryakin) Alma-et askora meditsinekoga instituta.

SINDINA, N.G.

Hygienic characteristics of consolidated preschool children's institutions in Alma-Ata. Zdrav. Kazakh. 21 no.1:76-77 '61.

(MIRA 14:3)

1. Iz kafedry obshohey gigiyeny (22v. - professor I.S.Koryakin) Kazakhakogo meditsinskogo instituta.

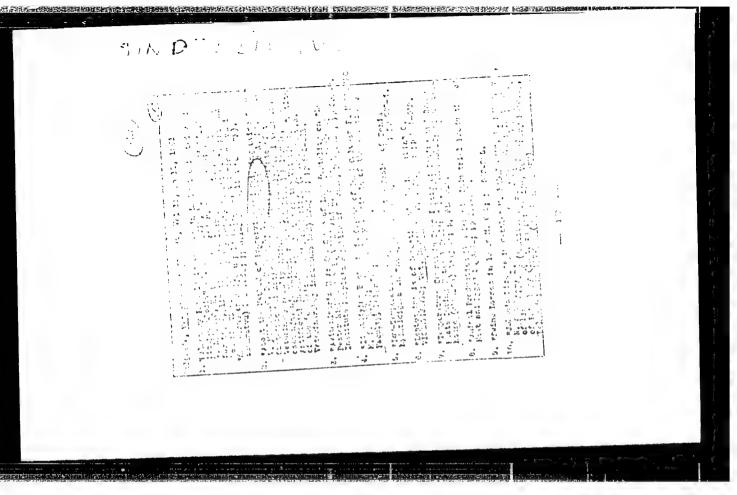
(ALMA ATA-NURSERIES-SANITARY AFFAIRS)

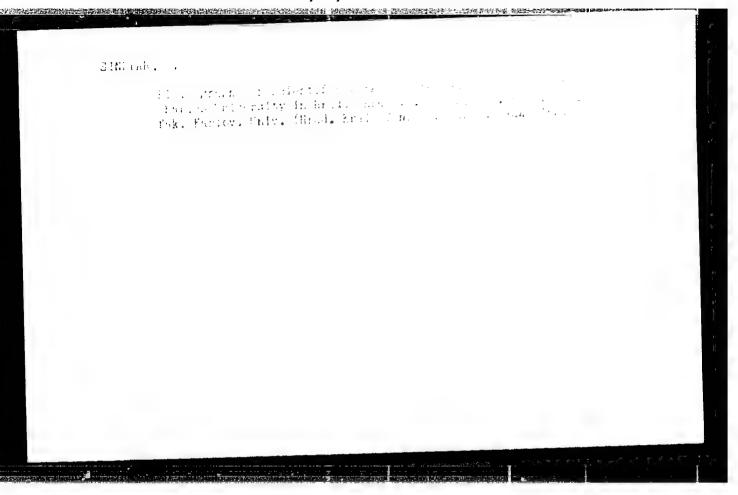
SINDINA, N.G.

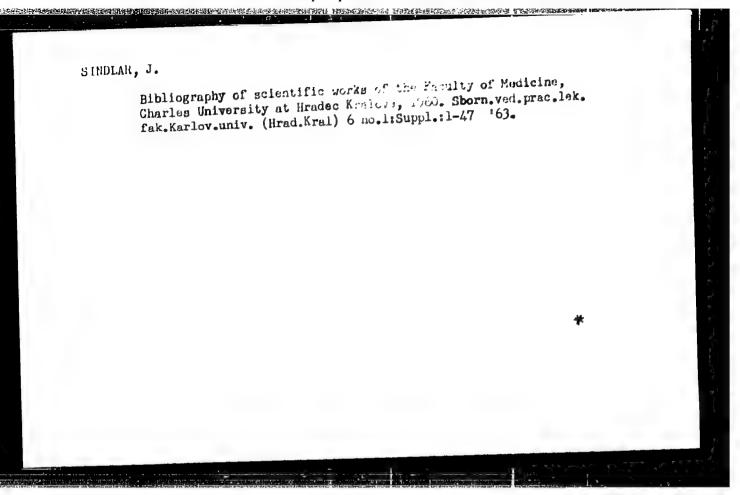
Condition of the natural illumination of school buildings in Alma-Ata. Zdrav. Kazakh. 21 no.10:59-61 161. (MinA 15:2)

1. Iz kafedry obshchey gigiyeny (zav. - prof. I.S.Koryakin) Kazakhskogo meditsinskogo instituta. (ALFA_ATA__SCHOOL HYGLENE)

त ग्रामणात् ।				
Tipide : 1 / mg.	ingi ingi mai a m	or of thems of the local or Tology to the Arm	Janata, Telume∃, Telum	and Carmon H
ang trupting t	eel eel gebruik (soo gebruik	Comment on, T. T. O.	and the second of the second	7.0
·, ,	nen, 1987.			







SINDLAR, S., inz.

Approximate determination of stress conditions in toroidal shells. Strojirenstvi 12 no.9:643-650 S *62.

1. Statni vyzkumny ustav tepelne techniky, Praha.

SINDLAR, S., inz. CSc.

Approximate solution of the stress in transitional parts of pressure vessels. Strojirenstvi 14 no. 3: 169-176 Mr 164.

1. State Research Institute of Heat Technology, Prague.

BR

ACCESSION NR: AP4010168

z/0041/64/000/001/0003/0019

AUTHOR: Similar, Swatopluk (Engineer)

TITLE: A torus-shaped shell with a negative Gaussian curvatura

SOURCE: Strojnicky casopis, no. 1, 1964, 3-19

TOPIC TAGS: shell, shell theory, shell analysis, torus-shaped shell, negative Gaussian curvature shell

ABSTRACT: A solution to the differential equation, which is obtained by solving the state of stress in a torus-shaped shell having a negative Gaussian curvature, is given. The equation has the finel form

$$q_1(a) = c_0 \varphi_1(a) + d_0 \varphi_2(a). \tag{1}$$

vbere

$$\begin{aligned} & \phi_1(\mathbf{e}) = (\lambda - \cos z) \frac{1}{c_0} \sum_{n=0}^{n=N} c_n (1 - \cos z)^n, \\ & \phi_2(\mathbf{e}) = (\lambda - \cos z) \sqrt{1 - \cos z} \frac{1}{d_0} \sum_{n=0}^{n=N} d_n (1 - \cos z)^n. \end{aligned}$$

Cerd 1/3

ACCESSION NR: AP4010168

The Kuratov method (P.S. Kuratov. "Napryozhennoye sostoyanie toroidal'nogo sopryazheniya" (Stressed state of torroidal coupling), Prochnost' elementov paraturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements)

$$\eta_{1}(a) = (\lambda - \cos a) \left\{ \sum_{n} c_{n} v_{1}^{n} + \sqrt{v_{1}} \sum_{n} d_{n} v_{1}^{n} + \frac{\sqrt{2v_{1}}C}{c_{0}d_{0}(\lambda - 1)^{3}} \left[\sum_{n} c_{n} v_{1}^{n} \cdot \sum_{n} \frac{d_{n}}{n + 1,5} v_{1}^{n+1} - \sum_{n} d_{n} v_{1}^{n} \cdot \sum_{n} \frac{c_{n}}{n + 1} v_{1}^{n+1} \right] \right\},$$
 (2)

where

1.1"

$$v_1 = 1 - \cos \alpha$$
 $c = -\frac{\lambda}{2} \left[1 + \left(\lambda^3 - \frac{\overline{r_0}^2}{\sigma^3} \right) (1 + 2i\gamma^3) \right].$

224

$$-\sum_{i}\frac{\epsilon_{0}}{n+1}\varphi_{i}^{i+1}\left(\sum_{i}nd_{i}\varphi_{i}^{i}+\frac{1}{2}\sum_{i}d_{i}\varphi_{i}^{i}\right)\right].$$

card 2/3

ACCESSION NR: AP4010168

in which the angle of is substituted by the angle - of . Then

The infinite power series in equations (2) and (3) converge very rapidly for small angles of convergence is the faster when the persenter (small Lambda) is the larger and the ratio a/8 (small Delta) the smaller. Orig. art. has: 2 figures and 87 equations.

ASSOCIATION: Statni vyskumny ustev tepelne techniky, Pregue (State Research

Institute for Heat Engineering)

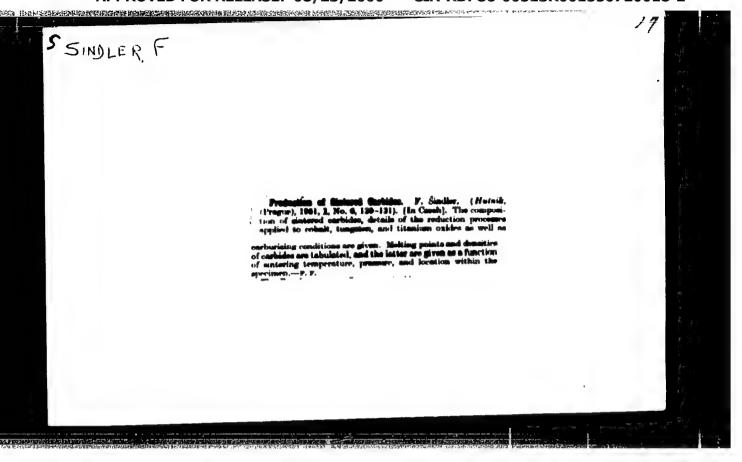
SUBSCITTED: 05Jun62 SUB CODE: AS DATE ACQ: 10Feb64 NO REF SOV: 005 ENCL: 00 OTHER: 015

Cerd 3/3

KIEPAL, Vaclav; SINDLER, Erich

Automatic production of gearings. Stroj wyr 11 no.5:233-236
My '63.

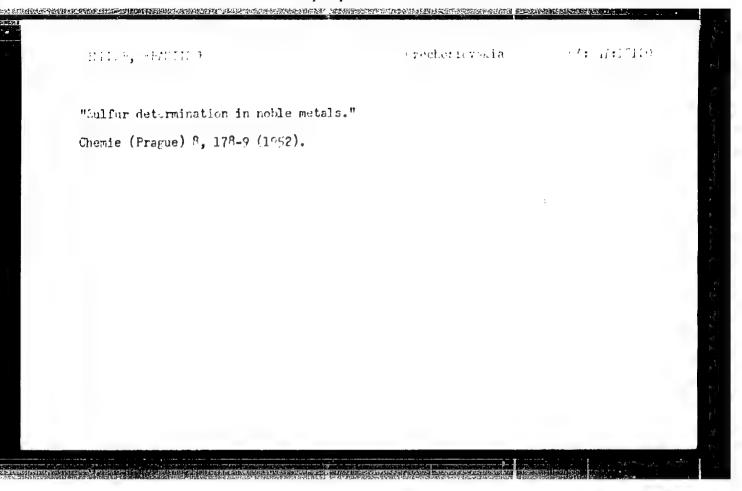
1. Tovarny na obrabeci stroje Celakovice, n.p., Celakovice.

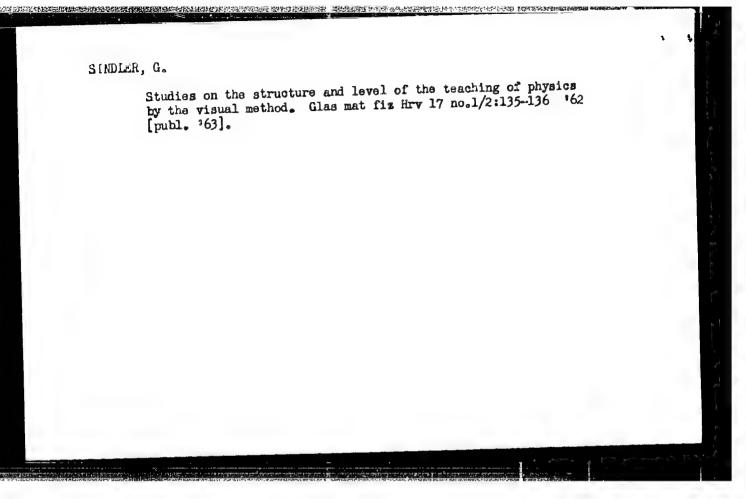


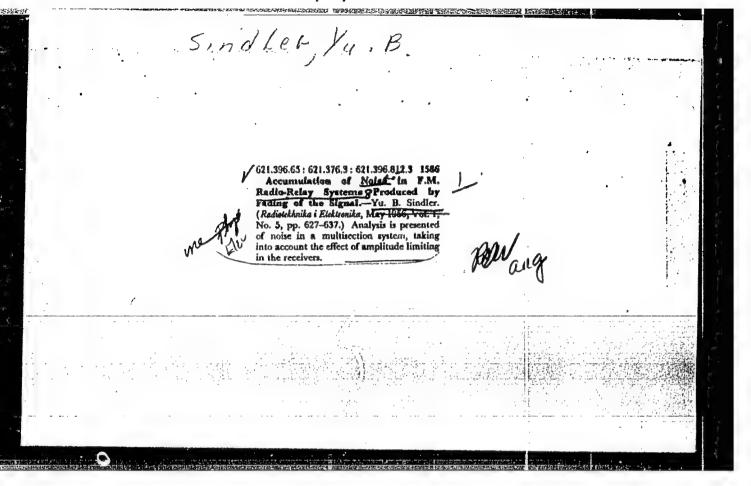
Simplifier, f.

"Industrial production of pure hydrogen and nitrogen." p. 190. (Chadie. Vol. 7, no. 10, Oct. 1951. Praha.)

So: Monthly List of Mast European Accessions, Vol. 3, no. 6, Library of Congress, June 1954. Uncl.







的现在表现是现在是一个主要的时间的是否对对外外的的过去式和过去分词,这个心理是有一点是没有的效果是不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个 Yu. B 108-11-3/10 71/1011 1 1 1 Nemirovskiy, A. S. Sindler, Yu. B., On the Fading-Correlation in Adjoining Sections of the AUTHORS: Radio-Relay-Lines (O korrelyatsii zamiraniy na sosednikh uchastkakh radioreleynykh liniy svyazi). TITLE: Radiotekhnika, 1957, Vol. 12, Nr 11, pp. 21-28 (USSR) PERIODICAL: In this place those factors are analysed which influence the probability of a deficiency of the radio-relay-lines effected by the fading. The intensity of the background ABSTRACT: noise at the line output is looked upon as chance quantity and for it the rule of the probability-distribution is assessed. In the first place the case where the threshold of the distinctness of speech is surpassed, is examined. This threshold complies with the case where the signal strength surpasses the intensity of the background noise by approximately 10 db. Two cases of deficiency of a line can be distinguished: b- all section are intact, but the backgrouni noise caught Card 1/3

On the Fading-Correlation in Adjoining Sections of the Radio- 108-11-3/10 Relay-Lines.

by the line surpasses the threshold of the distinctness of speech. It is demonstrated that, as a rule, in too long lines at the fading the background noise produced by one section surpasses substantially that noise assembled in other tracts. This means that, the stronger the frequency-modulationimprovement-threshold is pronounced, for as much longer lines this thesis can be applied. It is shown that in this case the static analysis of the line breakdown results from the static analysis of breakdowns of line sections. If the sections are more or less identical, the diagram of a simple circuit by Markov can be used. As in practice the circuit is heterogenous, it is useful to carry out the outfit for some section-pairs. Such an outfit was carried out for the radio-relay-line Moscow - Gor'kiy in 1954 and 1955. In this place the results of these investigations are reported. It is shown that the use of the diagram of the simple circuit by Markov gives the first result of a rough approach under consideration of the fading correlation in the adjoining sections. The real error, nevertheless, which occurs at the use of the simple circuit is less than the error which results from the computation. There are 3

Card 2/3

On the Fading-Correlation in Adjoining Sections of the 108-11-3/10 Radio-Relay-Lines.

figures, 2 tables, and 5 references, 5 of which are Slavic.

SUBMITTED: April 22, 1957.

AVAILABLE: Library of Congress

Card 3/3

CIA-RDP86-00513R001550720018-2 "APPROVED FOR RELEASE: 08/23/2000

SINDIER, EB

AUTHORS:

Siforov, V. I., Corresponding Member AN USSR,

TITLE:

Equivalence of the Statistic Pro-Sindler, Yu. B., perties of Radioengineering Systems With a Great Number of Random Parameters (Ob usloviyakh ekvivalentnosti statisti-

20-6-17/42

cheskikh svoystv radiotekhnicheskikh sistem s bol'shim chis-

lom sluchaynykh parametrov)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 6, pp. 956-958 (USSR)

ABSTRACT:

From the analysis of the mode of operation of some radioengineering systems (reference 1, 2, 3) results the problem of comparison of the distribution law of probabilities of the sum of the accidentally indipendent values x_1, x_2, \dots, x_n with the distribution law of the maximum (in the sense of a random realization) value. Such a problem arises e. g. with the radiorelay-lines with the analysis of the influence of limiters on the law of distribution of the noisepower in the telephone canal. Also with the radiolocation such a problem arises (reference 3). The solution of such problems facilitates the correct construction of radioengineering systems. If the distribution laws of the values x_1, x_2, \dots, x_n are similar to each other, then the distribution law of the sum of the random sizes in the range of their greatest values at the satisfaction of some additional conditions is practically equal to the

Card 1/2

20-6-17/42

Conditions of Equivalence of the Statistic Properties of Radioengineering Systems With a Great Number of Random Parameters.

distribution law of the greatest of these values. Radioengineering systems the main indices of which are determined by the maximum value and their sum, are equivalent. Moreover, the similarity of these distribution laws can be applied
for practical evaluations of the distribution law of the sum,
because the distribution law of the maximum value can be determined elementarily. A corresponding theorem is given and proved.
There are 4 references, 3 of which are Slavic.

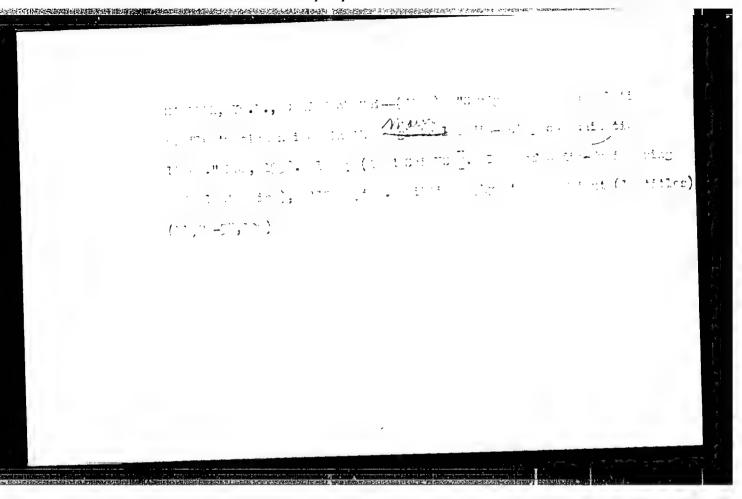
ASSOCIATION: Institute of Radioengineering and Electronics AN USSR (Institut

radiotekhniki i elektroniki Akademii nauk SSSR)

SUBMITTED: June 21, 1957

AVAILABLE: Library of Congress

Card 2/2



Using electronic digital computers for the solution of problems in ultrashortwave radio-relay communications by statistical

Institut radiotekhniki i elektroniki AN SSSR.
 (Radio relay systems--Noise) (Blectronic digital computers)

5/044/60/000/010/019/021 C111/C333

6.9400

Approximate calculation and modelling of the noise acou-

AUTHOR: TITLES

PERIODICAL:

mulation in radio communication lines with relay

Referativnyy zhurnal, Matematika, no. 10, 1960, 142, abstract 11952. (Sb.tr.Nauchno-tekhn. o-vo radiotekhn.

i elektrosvyazi im. A.S.Popova, 1958, vyp. 2, 227-255)

For sufficiently large values of the argument x the author gives estimations of the distribution laws $P_n(x)$ of the sums of a large number n of independent random variables as well as of random variables which form a simple homogeneous Markov chain. E.g., if the summands are independent, equally distributed, and if their distribution is attracted by a stable distribution with parameter &, then it holds for large for $\infty < 1$

$$x-valuess$$

$$F_{n}(x) \approx \begin{cases} 1-(nc/x^{2d}) & \text{for } 2d < 1 \\ 1-(nc/(x-cn \ln n)) & \text{for } 2d < 2 \\ 1-(nc/[x-(n-1)a]^{2d}) & \text{for } 2d < 2 \end{cases}$$

Card 1/2

Approximate calculation and ...

2259L S/044/60/000/010/019/021 C111/C333

(a is the mathematical expectation of the single summands, c--parameter). The results are applied in order to estimate the distribution law of the noise intensity in a telephone channel in the output of a radio communication line with relay. The author proposes a method for the modelling of the considered problem on digital computers.

Abstracter's notes Complete translation.

Card 2/2

109-3-2-22/26

Sindler, Yu.B. AUTHOR:

TITLE:

The Problem of Noise Storage in Radio Relay Links

(K voprosu o nakoplenii shuma v radioreleynykh liniyakh

svyazī)

Radiotekhnika i Elektronika, 1958, Vol.III, No.2, pp. 291 - 292 (USSR). PERIODICAL:

A formula for the noise distribution function $F_n(z)$ ABSTRACT:

a telephone channel situated at the n-th section of a radio-relay link is given. The symbols in the formula are as follows: a_k is the average noise power, $a_k' = a_k$ provided

 $\alpha_k \geqslant 2$, $a_k' = (1 - n^{1/\alpha}/n)a_k$ if $1 < \alpha_k < 2$, $a_k' = 0$ when

 $\alpha_k \leq 1$.

There is 1 Russian reference.

November 4, 1957 SUBMITTED:

AVAILABLE: Library of Congress

1. Noise-Distribution-Analysis Card 1/1

16 7000 (1403)

32171 5/044/61/000/010/037/051 C111/C222

AUTHORS:

Fleyshman, B.S., Linkovskiy, G.B., and Sindler, Yu.B.

TITLE:

On the question of the optimal statical estimation of the characteristics of a communication channel with a multi-ray

propagation

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 29, abstract 10 V 178. ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, vyp 3, 34-42)

TEXT: The authors consider the same situation as in the preceding paper of the authors (abstract 10 V 176); the notations of this abstract are used but another problem is given. The actual value of λ is assumed to be known. An estimation for the dispersion of the "multiplicative" component of the noise $\alpha_i(t)$ is sought. Under the same assumptions as in

the mentioned paper the authors use the method of the maximal credibility and the momentum method for the determination of the estimation of dispersion. The case where not all processes $\ll_1(t)$ are equally

Card 1/2

distributed and there exists a process $\mathcal{A}_1(t)$ the dispersion of which is greater than for all other $\mathcal{A}_1(t)$ is considered separatedly. Some examples are considered. The remarks on the unclearness of the formulations made in abstract 10 V 176 (as well as the remark of the reviewer with respect to this abstract) hold also for the present paper. [Abstracter's note: Complete translation.]

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000 CIA

CIA-RDP86-00513R001550720018-2

3/058/61/000 006/051/063

A001/A101

9,1400

Simpler Yu B

TITLE

AUTHOR:

An investigation of properties of propability distribution laws for

fading and noises in radio retransmission lines

FERRICO ICAL

Referativnyy zhurnal Fizika, no. 6, 1961, 359, abstract 6Zh289
"Shi the Nauchhoutekhn hovo radiotekhn i elektrosvyani im A S

Foreva", 1959, no. 3, 117 - 139)

TEXT. On the basis of the theory of stable laws of probability distribution, the author establishes asymptotic properties of probability distribution laws for noises in telephone channels of radio retransmission lines; he made use of various literature sources and generalized them.

[Abstratter's note | Complete translation]

B

Card 1/1

,我们就是这种的,我们就是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,也是一个人的人,也是一个人

34040 s/109/62/001/001/019/027 D246/D301

6.9400

AUTHOR:

Sindler, Yu.B.

TITLE:

Applying the theory of dynamical programming to the problem of recording the level of weak signals with the aid of inertial dynamical systems in the presence

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 1, 1962,

161 - 164

The purpose of the paper is to find the optimum parameters for building a converter which is based on discrete action; but it can be extended for continuous operation. The original weak signal u(t) is made to pass through a noisy amplifier, where it becomes K u(t) is made to pass through a noisy amplifier, where it becomes K u(t) is made to pass through a noisy amplifier, where it becomes K u(t) is made to pass through a noisy amplifier, where it becomes K u(t) is periodically resignal y(t) (which is not coincident with u(t)) is periodically resignal y(t) (which is not coincident with u(t)) is periodically resignal y(t)corded. A converter has to be inserted between amplifier and register so that to work out a signal $\lambda(t)$ which ensures that the next moment y(t) coincides better with K(u(t)) = S(t). The author tries

Card 1/3

34040 \$/109/62/007/001/019/027 D246/D301

Applying the theory of dynamical ...

to find the optimum functional $\lambda(t) = \lambda[s(\tau) + n(\tau)]$ where $t > \tau > -\infty$. The problem can be quantized, by dividing the time interval into N parts. Then the author assumes that S(t) is a normal Markov process. The output signal at the moment of recording can be represented by

$$y_{o} = \sum_{i=0}^{\infty} \lambda_{i} \Phi_{i}$$
 (2)

This is a problem of a multistage choice. Using the ideas of dynamical programming, the author derives recurrent functional equations. The analysis shows that for small noise the rule for choosing the signal λ at the time t=-i. ΔT is

the time
$$t = -1$$
. $\Delta 1$ is
$$\lambda_{\text{opt}}(\bar{s}_{\text{oi}} - y_{\text{oi}}) = \begin{cases}
\lambda_{1}^{*}, & \text{if } /\lambda_{1}^{*} / < \lambda_{M}, \\
-\lambda_{M}, & \text{if } \lambda_{1}^{*} < -\lambda_{M}, \\
\lambda_{M}, & \text{if } \lambda_{1}^{*} > \lambda_{M}.
\end{cases}$$
(15)

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Applying the theory of dynamical ...

S/109/62/007/001/019/027 D246/D301

where $\lambda_i^* = \frac{1}{\Phi_i}$ ($\bar{s}_{oi} - y_{oi}$), λ_M is a constant, such that $/\lambda(t)/\leq \lambda_M$, \bar{s}_{oi} is the conditional average value of the signal s_o for fixed values of $s_j + n_j$; y_{oi} is the value of y, in case when from t = -i. $\triangle T$ to t = 0 the signals given to the output of the register are zero. The analysis shows that at any level of noise the optimum signal is a function of the difference: $\bar{s}_{oi} - y_{oi}$. There are 1 figure, and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: R. Bellman Dynamic programming, Princeton University Press, Princeton, New Jersey. 1957.

SUBMITTED: August 11, 1961

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301112

S/109/61/006/012/017/020 D201/D305

9,9300

AUTHOR:

Sindler, Yu.B.

TITLE:

Storage of noise and fading in distant tropospheric

propagation radio-relay communication system

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PERIODICAL:

Radiotekhnika i elektronika, v. b, no. 12, 1961,

2093 - 2094

TEXT: This short communication deals with the asymptotic evaluation of the distribution law of probability of output noise fluctuation when this noise is at a high level and when its fluctuation is due to fading. Fading in tropospheric propagation may be either "slow" or "fast". The following assumptions are made: The system has a sections, the waves are propagated only owing to scattering and at the receiving and there are many primary rays with total power 2 σ^2 . Phaseshifts and amplitudes are continuously changing, the power 2 σ^2 varies slowly. For a given σ the amplitude of the ried intensity obeys the Rayleigh distribution

 $W(E/s) = \frac{E}{s^3} \exp\left(-\frac{E^3}{2s^3}\right). \tag{1}$

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Storage of noise and fading ...

It is also assumed that o is random and varies slowly and that its one-dimensional probability distribution is logarithmically normal

$$\widetilde{W}(3) = \frac{1}{\sqrt{2\pi}35} \exp\left[-\frac{(\ln 3 - \ln 3)^2}{2s^2}\right],$$
 (2)

where s - the kMS duration of parameter in Nepers. S is called the slow fading depth. The absolute probability density of the field intensity W(E) may be shown as

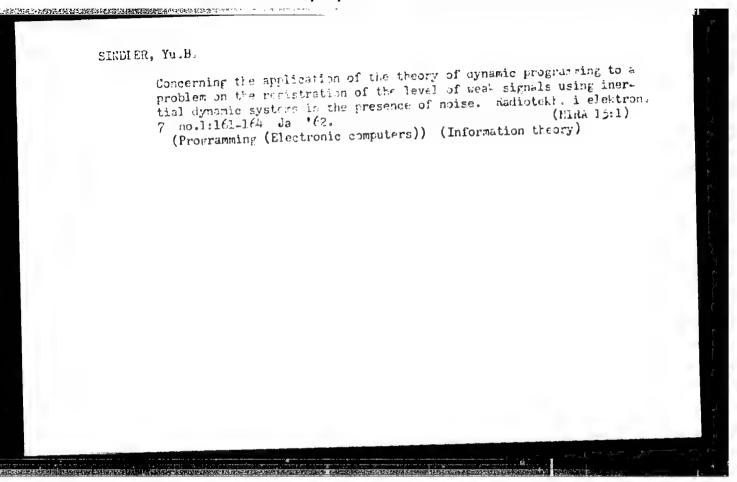
$$W(E) = \int_{0}^{\infty} W(E/\sigma)W(\sigma)d\sigma = \frac{1}{\sqrt{2\pi}s} \int_{0}^{\infty} \frac{E}{\sigma^{5}} \exp\left[-\frac{E^{2}}{2\sigma^{2}} - \frac{(\ln \sigma - \ln \sigma)^{2}}{2s^{2}}\right]d\sigma.$$

For small values of E

$$\mathbb{V}(\mathbb{E}) \stackrel{\sim}{\sim} \mathbb{E} \exp \left[2(s^2 - \overline{\ln \sigma}) \right] \tag{4}$$

may be obtained and since the fluctuating noise power introduced by one section of the system $y=B/E^2$ (5), where B - a constant, the distribution funtion of noise power at one section of the system for large values for noise may be determined by

Card 2/3



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ACC NR: AP6018992

SOURCE CODE: UR/0109/66/011/006/0996/1004

AUTHOR: Sindler, Yu. B.

ORG: none

50

TITIE: Two-step procedure of detection without signal level quantization

SOURCE: Radiotekhnika i elektronika, v. 11, no. 6, 1966, 996-1004

TOPIC TAGS: signal detection, signal noise separation

ABSTRACT: This two-step detection procedure is considered: (1) The first test yields a likelihood-ratio logarithm z_1 and requires an energy expenditure c_1 ; the value of z_1 is compared with two thresholds z_1 and z_2 ; if $z_1 < z_2$, the decision is — no signal; if $z_1 > z_1$, the decision is — the signal is present; if $z_2 < z_1$, the second test is required; (2) The second test yields z_2 and requires q_2 ; if $z_1 + z_2 > c$, the signal is present; if $z_1 + z_2 < c$, the signal is absent; z_1 is a new threshold. The quantities q_2 and c_1 are regarded as continuous functions if z_1 defined within $z_2 < z_1 < z_2$. Probability of correct detection, probability of false alarm, and energy expenditure in the second test (signal absent) are determined. It is claimed that, with high signal energies (large sampling), the above procedure is substantially

Card 1/2

UDC: 621.391.16

AUTHOR: Sindler, Yu. B.;

ORG: none

TITLE: Certain features of an optimal two-stage procedure for distinguishing between statistical hypotheses

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dny. radio. 22d, 1966. Sektsiya kibernetiki. Doklady. Moscow, 1966, 13-19

TOPIC TAGS: statistic analysis, data sampling, mathematic analysis, quality control

ABSTRACT: The article deals with the features of an optimal proc_dure of this kind as exemplified by sampling quality control in industry. Suppose that the substandard quality of a lot of products is determined by some parameter θ . The lot is considered up to the standards if $\theta < \theta_{\rm Cr}$, where $\theta_{\rm Cr}$ is the critical value of θ . In radio tube production, e.g. θ may be represented by a quantity inversely proportional to the average (for a given lot of tubes) service life. Suppose further that on testing any one specimen selected from this lot we obtain some random variable ξ_1 , and suppose that $p_{\theta}(x_1) = \text{Prob} \{\xi, < x, |\theta\}$ is the distribution function of

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 ξ_1 . For a fixed θ the variables ξ_1 and ξ_2 (i = j) are independent. Quality control results in either one of two decisions: the decision d_0 that $\theta < \theta_{Cr}$ (the lot is considered acceptable) or the decision d_1 that $\theta > \theta_{Cr}$ (the lot is rejected as substandard). The mutual interests of the producer and consumer require the consideration of at least the following three characteristics of quality control procedure; 1. The probability α of the adoption of decision d_1 on condition that θ has an a priori specified value $\theta = \theta_0$, where $\theta_0 < \theta_{Cr}$ (error of the first kind). 2. The probability β of the adoption of decision d_0 on condition that $\theta = \theta_1$, where $\theta_1 > \theta_{Cr}$ (error of the second kind). 3. The mean number $M_0(n)$ of the specimens used (mean sampling volume) from the acceptable batch when $\theta = \theta_0$. As noted, the procedure consists of two stages. Suppose n_1 is the volume of sampling during stage I and $x^I = \{x_1, \dots, x_{n_l}\}$ is the vector of random realization of the variables ξ_1, \dots, ξ_{n_l} at this stage. In the n_1 -variate space E_{n_1} of vector x^I three disjoint regions Γ_1 , Γ_1 are isolated in such a way that Γ_1 , Γ_1 , Γ_1 if Γ_1 or the decision Γ_1 when Γ_2 if Γ_1 if Γ_2 if the vector of the vector Γ_3 is divided into two disjoint regions Γ_2 (Γ_1) and Γ_2 (Γ_1), so that Γ_2 (Γ_1) is Γ_3 . The

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following pertinent statements are mathematically substantiated: Statement 1: The likelihood ratio ${}^{1}_{1}$ is a sufficient statistic of the vector X^{I} for selecting n_{2} in the domain $X^{I} \in G_{1}$. Statenient 2: The nature of optimal processing of the combined inspection findings for both stages consists in that the overall likelihood ratio ${}^{1}_{1}{}^{1}_{2}$ is determined and compared with the constant threshold (Lagrange multiplier) μ . If ${}^{1}_{1}{}^{1}_{2} > \mu$, the decision ${}^{1}_{1}$ is taken; if ${}^{1}_{1}{}^{1}_{2} < \mu$, the decision ${}^{1}_{0}$ is taken. Statement 3: The likelihood ratio ${}^{1}_{1}$ is a sufficient statistic of the vector X for an optimal decision on whether the vector X^{I} belongs in the domains ${}^{1}_{1}$, ${}^{1}_{1}$ or ${}^{1}_{1}$. It is shown that a formal solution of this problem, derived on disregarding the condition ${}^{1}_{2}$. ${}^{1}_{2}$ or ${}^{1}_{3}$. At is the condition. It is proved that condition ${}^{1}_{2}$ is satisfied in the domain ${}^{1}_{1}$. Orig. art. has: 22 formulas, 1 figure.

SUB CODE: 12 / SUBM DATE: 05Mar66/ ORIG REF: 003

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SINDLER, ZI.

25(2) PHASE I BOOK EXPLOITATION BOW/2779

- Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Leningradskoye oblastnoye pravleniye
- Gidrodinamicheskiye peredachi (Hydrodynamic Transmissions) Moscow, Mashgiz, 1959. 245 p. (Series: Its: Trudy, vyp. 52) 3,000 copies printed.
- Ed,: V.P. Gur'yev, Candidate of Technical Sciences, Docent; Tech. Ed.: L.V. Shchetinina; Managing Ed. for Literature on Machine-Building Technology (Leningrad Division, Mashgiz): Ye.P. Naumov, Engineer.
- PURPOSE: This book is intended for engineering and technical personnel in the field of hydraulic transmission. It may also be used as a textbook for students of higher technical schools.
- COVERAGE: The book is a collection of 20 papers read at the first conference on hydrodynamic transmissions held in Leningrad from 9-11 December, 1957, at which problems of calculation, design, production and operation of hydraulic clutches and hydraulic converters widely used in industry were discussed.

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